

Katherine Paullin

Curriculum Vitæ

Department of Mathematics
University of Kentucky
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RESEARCH INTERESTS

3-Manifold Topology, Mathematics Education

EDUCATION

Ph.D. in Mathematics (May 2015)
Saint Louis University
Advisor: David Letscher
Dissertation Title: “Spun Almost Normal Form”

M.S. in Mathematics (May 2009)
Illinois State University
Advisor: Olcay Akman
Thesis Title: “Mary Had A Little Lamb: Using Genetic Algorithms to Create Music”

B.A. in Mathematics (May 2007)
Illinois State Teacher Certification for Mathematics, grades 6-12
Monmouth College

PROFESSIONAL EXPERIENCE

Visiting Lecturer **Fall 2015–Spring 2016**
Mathematics Department, University of Kentucky *Lexington, KY*

Instructor **Summer 2015**
FastTrack Program, University of Kentucky *Lexington, KY*

Research Assistant **Fall 2013–Spring 2015**
Mathematics and Computer Science Department, Saint Louis University *St. Louis, MO*

Teaching Assistant **Fall 2009–Spring 2013**
Mathematics and Computer Science Department, Saint Louis University *St. Louis, MO*

Instructor, Math Team Leader <i>Billiken Bridge to Success Program, Saint Louis University</i>	Summers 2011–2014 <i>St. Louis, MO</i>
Adjunct Instructor <i>Mathematics Department, Southwestern Illinois College</i>	Summers 2011–2013 <i>Belleville, IL</i>
Instructor <i>GRE Prep Course-Mathematics, McNair Scholars Program, Saint Louis University</i>	Summer 2012 <i>St. Louis, MO</i>
Graduate Assistant <i>University College-Developmental Math, Illinois State University</i>	Fall 2007–Spring 2009 <i>Normal, IL</i>
Student Teacher <i>Mathematics, Monmouth-Roseville High School</i>	Spring 2007 <i>Monmouth, IL</i>
Teaching Assistant <i>Mathematics Department, Monmouth College</i>	Fall 2006 <i>Monmouth, IL</i>

COURSES TAUGHT AS PRIMARY INSTRUCTOR

At University of Kentucky

Spring 2016	MA 310: Mathematical Problem Solving for High School Teachers	
	MA 123: Elementary Calculus and Its Applications	
Fall 2015	MA 123: Elementary Calculus and Its Applications	
	MA 111: Contemporary Mathematics	

At Saint Louis University

Numbers in the right margin are student evaluations of the instructor overall, with ratings from 1–5 (where 1 is the best possible score).

Spring 2013	MATH 120: College Algebra	1.79
Fall 2012	MATH 141: PreCalculus	1.70
Fall 2011	MATH 132: Survey of Calculus	1.36
Spring 2011	MATH 122: Finite Mathematics	1.43
Fall 2010	MATH 120: College Algebra	1.62
Spring 2010	MATH 122: Finite Mathematics	1.73

At Southwestern Illinois College

Summer 2013	MATH 111: Liberal Arts Mathematics	
	MATH 112: College Algebra	
Summer 2012	MATH 112: College Algebra	
Summer 2011	MATH 191/BUS 205: Introduction to Statistics/Economic and Business Statistics	
	MATH 114: Trigonometry	

PRESENTATIONS

Selected Talks

“Spinning Almost Normal Surfaces” talk to be presented at the Joint Mathematics Meetings, Seattle, WA. January 2016

“An Introduction to Normal Surface Theory and Spun Almost Normal Form” talk presented at Topology Seminar, University of Kentucky, Lexington, KY. December 2015

“Spun Almost Normal Form” talk presented at the Joint Mathematics Meetings, San Antonio, TX. January 2015

“Spun Normal and Spun Almost Normal Surfaces” talk presented at the Missouri section of the MAA, St. Louis, MO. March 2014

“Grad School 101” talk presented to students at Monmouth College as part of their Women in Science program, Monmouth College, Monmouth, IL. November 2013

“The Excluded Point Topology: An Introduction” talk presented at the joint meeting of the Missouri section of the MAA and the Missouri Mathematical Association of Two Year Colleges, Columbia, MO. April 2011

“Mary Had a Little Lamb: Using Genetic Algorithms to Create Music” talk presented at the Illinois section of the MAA, Peoria, IL. April 2009

Poster Presentations

“Spun Normal and Spun Almost Normal Surfaces” poster presented at the Graduate Student Association Research Symposium, Saint Louis University. April 2014

AWARDS AND HONORARIES

Research and Academic Honors

- 2015 Pi Mu Epsilon: National Mathematics Honor Society; Alpha Epsilon Lambda: National Graduate Student Honor Society
- 2007 Graduate Cum Laude; Honors Program Graduate
- 2006 Mortar Board; Kappa Delta Pi: National Education Honorary
- 2005 Blue Key
- 2004 National Society of Collegiate Scholars; Alpha Lambda Delta Honorary

Other Honors and Awards

- 2015 John J. Andrews Service Award-SLU Mathematics Department
 - 2007 Alpha Xi Delta-Beta Epsilon Senior of the Year
 - 2006 President of Alpha Xi Delta-Beta Epsilon Chapter
 - 2005 Order of Omega: National Greek Honorary; Public Relations Vice President of Alpha Xi Delta-Beta Epsilon Chapter
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DEPARTMENTAL AND UNIVERSITY SERVICE

Departmental Service

- Assistant Course Coordinator for MA 123 Elementary Calculus, University of Kentucky, Spring 2016
- Coordinator of TA Observations, University of Kentucky, Fall 2015
- Member of Planning Committee for Missouri MAA Section Meeting, Saint Louis University, Spring 2014
- Mathematics Representative to Graduate Student Association, Saint Louis University, 2013-2014
- Graduate Student Volunteer, Mathematical Abundance Conference celebrating Professor Emeritus Charles Vanden Eynden's 72nd Birthday, Illinois State University, April 2008

University Service

- Graduate Student Volunteer, Expanding Your Horizons Conference of St. Louis, March 2014 and 2015
- Student Evaluator for Postdoc Fellow Search, Reinert Center for Transformative Teaching and Learning, Saint Louis University, April 2014
- Member of Selection Committee, Brennan Summer Fellowship Awards for Doctoral Dissertations, Saint Louis University, Spring 2014
- Scots Ambassador, Monmouth College, 2004-2006

Other Professional Service

- Judge for AWM Graduate Student Poster Session, Joint Mathematics Meetings, January 2016
- Game Control Member, D.A.S.H. National Puzzle Hunt - St. Louis, May 2015
- Chapter Life Advisor, Alpha Xi Delta-Epsilon Xi Chapter, University of Missouri-St. Louis, 2010-2011
- Philanthropy Advisor, Alpha Xi Delta-Kappa Chapter, University of Illinois at Urbana-Champaign, 2008-2009

PROFESSIONAL DEVELOPMENT

Continuing Education

- Certificate in University Teaching Skills, presented by the Reinert Center for Transformative Teaching and Learning, Saint Louis University, December 2013
- Internship in College Teaching, course taken at Illinois State University, Fall 2008

Professional Memberships

- American Mathematical Society
 - Mathematical Association of America
 - Association for Women in Mathematics
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REFERENCES

Dr. David Letscher <i>Associate Professor, Saint Louis University</i>	letscher@slu.edu 314-977-2467
Dr. Erin Wolf Chambers <i>Associate Professor, Saint Louis University</i>	echambe5@slu.edu 314-977-7002
Dr. erica Whitaker <i>Lecturer, University of Kentucky</i>	ewhitaker@uky.edu 859-257-6792
Dr. T. Christine Stevens <i>Professor Emerita, Saint Louis University</i> <i>Associate Executive Director, American Mathematical Society</i>	stevensc@slu.edu 401-455-4130
Dr. Russell Blyth <i>Professor, Saint Louis University</i>	blythrd@slu.edu 314-977-2458